

**Form PTO-1449 Modified**

List of Patent and Publications  
Cited by Applicant  
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U.S. Department of Commerce  
Patent and Trademark Office

Docket No.  
**ISIS-4943**

Serial No.  
**09/996,263**

Applicant  
**Phillip Dan Cook et al.**

Filing Date  
**November 28, 2001**

Group  
**1635**

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

JDS	IX	Arya, S. K. et al., "Inhibition of RNA Directed DNA Polymerase of Murine Leukemia Virus by 2'-O-Alkylated Polyadenylic Acids," <i>Biochemical and Biophysical Research Communications</i> , <b>1974</b> , 59(2), 608-615
	IY	Arya, S. K. et al., "Inhibition of Synthesis of Murine Leukemia Virus in Cultured Cells by Polyribonucleotides and Their 2'-O-Alkyl Derivatives," <i>Molecular Pharmacology</i> , <b>1976</b> , 12, 234-241
	IZ	DeClercq, E. et al., "Influence of various 2- and 2'-substituted polyadenylic acids on murine leukemia virus reverse transcriptase," <i>Cancer Letters</i> , <b>1979</b> , 7, 163-167
	JA	Hobbs, J. et al., "Polynucleotides Containing 2'-Amino 2'-deoxyribose and 2'-Azido-2'-deoxyribose <sup>†</sup> ," <i>Biochem.</i> , <b>1973</b> , 12, 5138-5145
	JB	Hobbs, J. et al., "Poly 2'-Deoxy-2'-Aminouridylic Acid," <b>1972</b> , 46(4), 1509-1515
	JC	Pieken, W. et al., "Kinetic Characterization of Ribonuclease-Resistant 2'-Modified Hammerhead Ribozymes," <i>Science</i> , <b>1991</b> , 253, 314-317
	JD	Pilet, J. et al., "Structural parameters of single and double helical polyribonucleotides," <i>Biochem Biophys Res Commun</i> , <b>1973</b> , 52(2), 517-523
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	JF	Rottman, F. et al., "Polymers Containing 2'-O-Methylnucleotides. II. Synthesis of Heteropolymers," <i>Biochem</i> , <b>1969</b> , 8(11), 4354-4361
	JG	Wincott et al., "Synthesis, deprotection, analysis and purification of RNA and ribozymes," <i>Nucl. Acids Res.</i> , <b>1995</b> , 23(14), 2677-2684
✓	JH	Zmudzka, B. et al., "Poly 2'-O-methylcytidylic acid and the role of the 2'-hydroxyl in polynucleotide structure," <i>Biochem Biophys Res Commun</i> , <b>1969</b> , 37(6), 895-901
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Examiner Initial		Document No.	Date	Name	Class	Subclass
JDS	JI	5,804,683	09/08/98	Usman et al.	536	25.31
JDS	JJ	5,891,683	04/06/99	Usman et al.	435	91.31

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Examiner Initial		Document No.	Date	Country	Translation YES NO	

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	AB	Ikehara et al., "A Linear Relationship Between Electronegativity of 2'-Substituents and Conformation of Adenine Nucleosides", <i>Tetrahedron Letters</i> , 1979, 42, 4073-4076
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	AD	Ikehara et al., "Studies of Nucleosides and Nucleotides-LXV <sup>1</sup> Purine Cyclonucleosides-26 A Versatile Method for the Synthesis of Purine O-Cyclo-Nucleosides. The First Synthesis of 8,2'-Anhydro-8-Oxy 9-β-D-Arabinofuranosylguanine", <i>Tetrahedron</i> , <b>1975</b> , 31, 1369-1372
	AE	Arnott et al., "Optimised Parameters for A-DNA and B-DNA", <i>Biochem. Biophys. Res. Comm.</i> , <b>1970</b> , 47, 1504-1510
	AF	Beaucage et al., "Deoxynucleoside phosphoramidites -- A new class of key intermediates for deoxypolynucleotide synthesis", <i>Tetra. Lett.</i> , <b>1981</b> , 22, 1859-1862
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	AH	Eckstein, et al., "Polynucleotides containing 2'-chloro-2'-deoxyribose," <i>Biochemistry</i> , <b>1972</b> , 11, 4336-4344
	AI	Fox, et al., "Nucleosides, XVIII. Synthesis of 2'-Fluorothymidine, 2'-fluorodeoxyuridine, and other 2'-halogeno-2'-deoxy nucleosides," <i>J. Org. Chem.</i> , <b>1964</b> , 29, 558-564
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JDS	AM	Ikehara et al., "Polynucleotides. L. synthesis and properties of poly (2'chloro-2'-deoxyadenylic acid) and poly (2'-bromo-2'-deoxyadenylic acid)", <i>Nucleic Acids Res.</i> , <b>1978, 4</b> , 4249-4260	
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	AQ	Koole et al., "Synthesis of phosphate-methylated DNA fragments using 9-fluorenylmethoxycarbonyl as transient base protecting group", <i>J. Org. Chem.</i> , <b>1989, 54</b> , 1657-1664	
	AR	Jones et al., "4'-substituted nucleosides. 5. hydroxymethylation of nucleoside 5'-aldehydes", <i>J. Org. Chem.</i> , <b>1979, 44</b> , 1309-1317	
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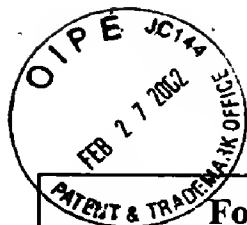
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	AW	Parkes et al., "A short synthesis of 3'-cyano-3'-Deoxythymidine", <i>Tetrahedron Letters</i> , 1988, 29, 2995-2996
	AX	Ranganathan, "Modification of the 2'-Position of Purine Nucleosides: Synthesis of 2'-a-Substituted-2'-Deoxyadenosine Analogs", <i>Tetrahedron Letters</i> , 1977, 15, 1291-1294
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	BE	Gait, M.J. (Ed.), "Oligonucleotide Synthesis. A Practical Approach", Chapter 13, Atkinson and Smith, Authors, IRL Press, <b>1984</b>	
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	BG	Hertel et al., "Synthesis of 2-deoxy-2,2-difluoro-D-ribose and 2-deoxy-2,2-difluoro-D-ribofuranosyl nucleosides", <i>J. Org. Chem.</i> , <b>1988</b> , 53, 2406-2409	
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U	BJ	Ikehara et al., "Improved Synthesis of 2'-fluoro-2'-deoxyadenosine and Synthesis and Carbon-13 NMR Spectrum of its 3',5'-cyclic Phosphate Derivative", <i>Nucleosides &amp; Nucleotides</i> , <b>1983</b> , 2, 373-385	
	BK	Agrawal, S., et al., "Oligodeoxynucleoside phosphoramidates and phosphorothioates as inhibitors of human immunodeficiency virus," <i>Not a proper reference</i>	
JDS	BL	Augustyns, et al., "Influence of the incorporation of (s)-9-(3,4-dihydroxy-butyl)adenine on the enzymatic stability and basepairing properties of oligodeoxynucleotides," <i>Nucleic Acids Res.</i> , <b>1991</b> , 19, 2587-2593	
	BM	Beaton, et al., Chapter 5, "Synthesis of oligonucleotide phosphorodithioates," page 109, "Oligonucleotides and analogs, <i>A Practical Approach</i> , Eclsteom. F. (Ed.); The Practical Approach Series, IRL Press, NY, <b>1991</b> , 109-135	
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IDS	<b>BP</b>	Kawasaki, et al., "Synthesis and biophysical studies of 2'-dRIBO-2'-F modified oligonucleotides, Conference on Nucleic Acid Therapeutics, Clearwater, FL., January 13, 1991
	<b>BQ</b>	Kawasaki, et al., "Uniformly modified 2'-deoxy-2'-fluoro phosphorothioate oligonucleotides as nuclease-resistant antisense compounds with high affinity and specificity for RNA targets," <i>J. Med. Chem.</i> , <b>1993</b> , 36, 831-841
	<b>BR</b>	Kierzek, et al., "Association of 2'-5' oligoribonucleotides," <i>Nucleic Acids Res.</i> , <b>1992</b> , 20, 1685-1690
	<b>BS</b>	Matteucci, M., "Hybridization properties of a deoxyoligonucleotide containing four formacetal linkages," <i>Nucleosides &amp; Nucleotides</i> , <b>1991</b> , 10, 231-234
	<b>BT</b>	Borthwick, et al., "Synthesis of chiral carbocyclic nucleosides," <i>Tetrahedron</i> , <b>1992</b> , 48, 571-623
	<b>BU</b>	Brill, et al., "Synthesis of deoxydinucleoside phosphorodithioates," <i>J. Am. Chem. Soc.</i> , <b>1991</b> , 113, 3972-3980
	<b>BV</b>	Cohen in <i>Oligonucleotides: Antisense inhibitors of gene expression</i> , CRC Press, Boca Raton, FL, <b>1989</b> , 1-255
	<b>BW</b>	Dagle, et al., "Physical properties of oligonucleotides containing phosphoramidate-modified internucleoside linkages," <i>Nucleic Acids Research</i> , <b>1991</b> , 19, 1805-1810
	<b>BX</b>	Dagle, et al., "Targeted degradation of mRNA in xenopus oocytes and embryos directed by modified oligonucleotides: studies of An2 and cyclin in embryogenesis," <i>Nucleic Acids Res.</i> , <b>1990</b> , 18, 4751-4757
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\* A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.



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	CC	Gait, et al., "Synthetic analogues of polynucleotides. Part XII. Synthesis of thymidine derivatives containing an oxyacetamido- or and oxyformamido-linkage instead of a phosphodiester group," <i>J.C.S. Perkins I</i> , <b>1974</b> , 1684-1686	
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	CI	Monia, et al., "Evaluation of 2'-modified oligonucleotides containing 2'-deoxy gaps as antisense inhibitors of gene expression," <i>J. Bio. Chem.</i> , <b>1993</b> , 208, 14514-14522	
✓	CJ	Musicki, et al., "Synthesis of nucleoside sulfonates and sulfones," <i>Tetr. Letts.</i> , <b>1991</b> , 32, 1267-1270	
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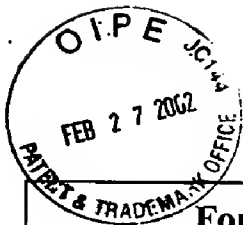
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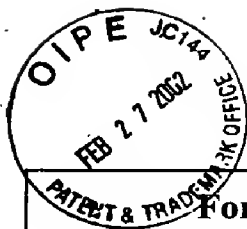
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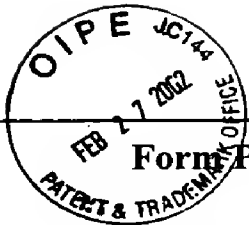
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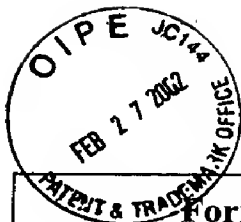
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List of Patent and Publications  
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(Use several sheets if necessary)U.S. Department of Commerce  
Patent and Trademark OfficeDocket No.  
ISIS-4943Serial No.  
09/996,263Applicant  
Phillip Dan Cook, et al.Filing Date  
November 28, 2001Group  
Not Yet Assigned

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**Docket No.**  
**ISIS-4943**

Serial No.  
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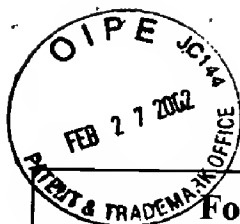
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